

BOARD OF FIREFIGHTING PERSONNEL STANDARDS AND EDUCATION

Hazardous Material Technician Sample Test



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Version 0

Hazmat Technician

1. NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents, 2008 Edition
2. Fire Protection Publications, Hazardous Materials: Managing the Incident, 2nd Edition, 5th Printing
3. ERG, Emergency Response Guidebook, 2012 Edition

1. A halogenated hydrocarbon may contain the following elements: carbon, hydrogen, and _____.
 - A. chlorine.
 - B. bromine.
 - C. fluorine.
 - D. all of the above are correct.
2. Technicians who travel down range to gather information are called the:
 - A. reconnaissance entry team.
 - B. information team.
 - C. decontamination team.
 - D. resource team.
3. An intermodel tank car consists of seamless steel cylinders from nine (9) to 48 inches with fittings at one end is a _____ car.
 - A. nonpressurized tank
 - B. flammable liquid tank
 - C. tube module
 - D. low-pressure tank
4. Which of the following equipment is not normally part of a sample collection kit?
 - A. Bung wrench
 - B. paper cup
 - C. coliwasa
 - D. nonsparking sample pole
5. Given an incident involving anhydrous ammonia, the decontamination of crew members through the use of water and soap is known as:
 - A. dilution.
 - B. adsorption.
 - C. absorption.
 - D. neutralization.
6. Operating filaments of the Combustible Gas Indicator (CGI) can be damaged by brief exposure to:
 - A. unleaded gasoline.
 - B. methyl ethyl ketone.
 - C. organic silicone.
 - D. kerosene.
7. When selecting a proper patching device, choose one that is compatible with the material you are attempting to control, and ensure it is a minimum of _____ times larger than the estimated opening.
 - A. 1.5
 - B. 2
 - C. 1.75
 - D. 2.5

8. All of the following are required on a pipeline marker except:
- A. product.
 - B. product separator material.
 - C. owner / operator.
 - D. emergency telephone number.
9. Where would you find valves on a one-ton container?
- A. end
 - B. top
 - C. bottom
 - D. middle
10. _____ refers to the process of moving liquids, gases, or solids, either manually, by pump, or pressure transfer, from a leaking or damaged container.
- A. Mitigation
 - B. Containment
 - C. Confinement
 - D. Product transfer
11. A reading of "0" on any direct reading sampling device should be reported as:
- A. zero reading.
 - B. clean-area response.
 - C. batteries need to be checked.
 - D. no instrument response.
12. Which of the following would you **not** expect in a one-ton container?
- A. Chlorine
 - B. Oxygen
 - C. Sulfur dioxide
 - D. Phosgene
13. T F Vent and burn is the last option at a HAZMAT scene.
14. The amount of one substance mixed or dissolved in a specified amount of a second substance, usually measured in percentage, is known as the:
- A. concentration.
 - B. miscible.
 - C. compound.
 - D. mixture.
15. The appropriate device to be used in detecting nerve agents is a(n):
- A. M8 detection paper.
 - B. mercury detector.
 - C. fluoroscope.
 - D. both A and B are correct
16. The individual responsible for establishing and managing the site plan, developing an organizational structure, and allocating resources best describes the:
- A. Safety Officer.
 - B. Incident Commander.
 - C. Operations Officer.
 - D. Decontamination Officer.

17. The process in which a leaking compressed gas cylinder of chlorine is placed inside another cylinder device to control a leak is known as:
 - A. packing.
 - B. vacuuming.
 - C. patching.
 - D. overpacking.
18. Which of the following exposure values could be repeated during an 8-hour work day a maximum of four times daily for 15 minutes with a 60-minute rest period between exposures?
 - A. IDLH
 - B. TLV-TWA
 - C. TLV-STEL
 - D. TLV-C
19. The illustration and description below would be identified as a(n):



Description: Service pressures range from 100 to 500 psi.

- A. IMO Type 1. B. IMO Type 2. C. IMO Type 5. D. IMO Type 7.
20. Which of the following products will likely be carried in a type MC 331 tank trailers?
- A. anhydrous ammonia
B. propane
C. gasoline
D. both A and B are correct
21. When using air purifying respirators, which of the following is not an operational component that should be considered prior to use?
- A. The supplied air line cannot exceed 300 feet.
B. The appropriate cartridge/filter is selected prior to use.
C. The concentration of the chemical is known.
D. Ambient air must contain at least 19.5% oxygen.

22. Glass devices filled with a reagent, designed to measure specific concentrations of products by producing a measurable stain best describes:
- A. colorimetric tubes.
 - B. combustible gas indicators.
 - C. gas chromatography.
 - D. photoionization detectors.
23. A tank car has the specification DOT 112 T 400 W. What does the T stand for?
- A. Thermal protection system
 - B. Thermal & insulation protection systems
 - C. Thermal protection system and a head shield
 - D. Head shield and shelf couplers
24. A recon team is sent to observe a tank truck that has rolled over. The team reports that the vehicle is an MC 312. The container most probably contains a:
- A. flammable liquid.
 - B. corrosive liquid.
 - C. poison gas.
 - D. flammable solid.
25. There is no assurance that once decontamination of chemical protective clothing is complete, _____ has ceased.
- A. chemical metabolism
 - B. abrasion
 - C. permeation
 - D. penetration